



Features

- * Controls Infinova PTZ domes, DVRs and matrix switchers
- * Built-in RS485/Manchester control code generators, allowing direct control over site receivers or Super Domes
- * DVR control through RS-485 interface.
- * Communicates with matrix switching system through RS-232 or Ethernet interface
- * User-friendly design with clearly labeled operation keys
- * Video input/output switching ability
- * Variable-speed 3-D joystick for controlling motorized pan/tilts and lens
- * Capable of programming, starting and controlling System/Monitor Tours and System Salvos
- * Convenient monitor arming/disarming and alarm acknowledgement
- * Easy preset defining and calling up
- * Camera lockout capability
- * Six optional Baud rates: 1200, 2400, 4800, 9600, 19200, 38400bps

Order information

V2117	System keyboard with LCD display, 3D joystick, RS485/Manchester output, RS232/Ethernet; DVR Control 120V/60Hz
V2117X	System keyboard with LCD display, 3D joystick, RS485/Manchester output, RS232/Ethernet; DVR Control 230V/50Hz

Keyboard Layout

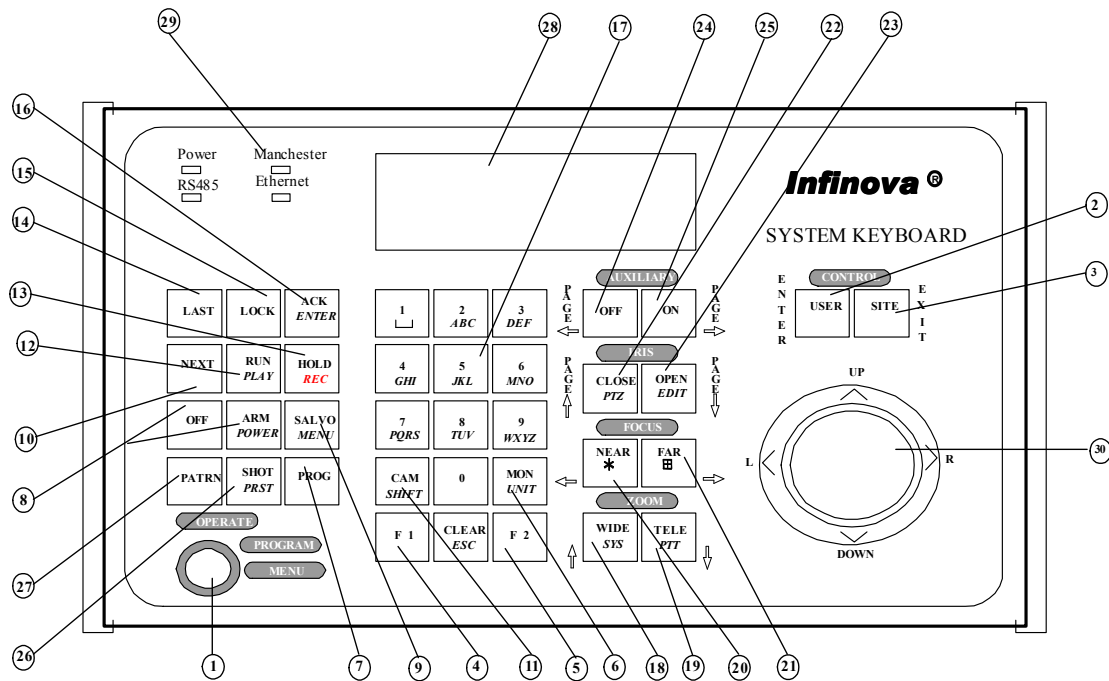


Figure 1. V2117 System Keyboard Layout

Note: Please refer to Appendix III for details on keys used for DVR functions in user manual.

- | | | |
|-------------------|--------------------------|--------------------------|
| (1) Key switch | (11) Camera key | (21) FAR/Right arrow key |
| (2) USER key | (12) RUN key | (22) CLOSE/Page up key |
| (3) Site control | (13) HOLD key | (23) OPEN/Page down key |
| (4) F1 key | (14) LAST key | (24) OFF/Page left key |
| (5) F2 key | (15) LOCK key | (25) ON/Page right key |
| (6) Monitor key | (16) ACK key | (26) SHOT/Enter key |
| (7) PROG key | (17) Numeric key | (27) PATRN/Exit key |
| (8) ARM & OFF key | (18) WIDE/Up arrow key | (28) LCD display panel |
| (9) SALVO key | (19) TELE/Down arrow key | (29) Four LED indicators |
| (10) NEXT key | (20) NEAR/Left arrow key | (30) Joystick |

General

Communication Protocol.....RS-232, Ethernet
DVR /Dome Output.....Manchester/RS-485
RS-232 Selectable Baud Rate.....1200, 2400, 4800, 9600, 19200, 38400

Electrical

Input Voltage.....120VAC/60Hz; 230VAC/50Hz
Power Consumption.....4.5W

Mechanical

Dimension.....2.68" (H) ×12.99" (W)×7.87" (D)
(68×330×200 mm)
Weight.....6.17 lb (2.8 Kg)
Color.....Gray

Compatibility

V2011.....Small-scale matrix switching system
V2015.....Small-scale matrix switching system
V2020.....Middle-scale matrix switching system
V2040.....Large-scale matrix switching system
V3010.....Infinova DVR

Environmental

Temperature.....0~60 °C (32~140 °F)
Humidity.....95% (Non-condensing)

Product description

V2117 series system keyboards are compatible with Infinova series matrix switchers/controllers, PTZ cameras, and digital video recorders. V2117 series system keyboards are capable of handling video switching, system setup, menu programming, PTZ (Pan/Tilt/Zoom) control, alarm acknowledgement, salvo switching, DVR control, etc. There is a user login feature for added system security. RS485 and Manchester code outputs allow for direct control over Infinova series receiver/drivers or dome cameras. DVRs can be controlled through the RS-485 interface. The 3-D joystick can control either fixed or variable-speed pan/tilts. The lens key allows for control of motorized lenses, including: iris (OPEN/CLOSE), focus (FAR/NEAR), and zoom (WIDE/TELE). The LCD display window indicates site number, camera number and monitor number, as well as any digital inputs from the keyboard. A built-in beeper will alert operators to system errors. V2117 series system keyboards can establish Ethernet or bi-directional RS-232 communications with Infinova series matrix switching systems. Six different baud rates are provided to work with different major matrix switcher/controllers. The keyboard also provides four system status LEDs indicators. These features make the V2117 the complete keyboard, for any Infinova CCTV system.

1.0 Description:

The microprocessor based, full function system keyboard shall be Infinova's V2117. The keyboard described shall be able to program or control all functions of Infinova Matrix Switchers, as well as provide direct control over pan/tilts, dome cameras, or DVRs within a system.

2.0 General Requirements:

1. Control of up to 16 dome cameras, Matrix Switchers, and/or DVRs
2. 3D joystick control for variable speed pan/tilt and motorized lens
3. Camera, monitor, satellite selection
4. Presets, pattern, and auxiliary device control
5. Manchester Code, RS-422 and RS-485 outputs
6. Lens, tour, and salvo control
7. Alarm acknowledgement
8. Camera lock
9. Complete system programming
10. User login
11. LCD display
12. Keyboard shall meet UL, cUL, CE, FCC, and ISO 9000 standards and be fully certified under each.
13. Operational temperatures shall be: 0 - 60° C; Humidity 0 – 90% non condensing

3.0 Function and Features:

1. The keyboard shall provide control over:
 - a. Camera selection
 - b. Monitor selection
 - c. Satellite location selection
 - d. Zoom
 - e. Focus
 - f. Iris
 - g. Variable speed pan/tilt or dome control
 - h. Preset & Pattern program and call
 - i. Auxiliary device control
 - j. Tour control
 - k. Salvo control
 - l. Alarm acknowledgement
 - m. Camera lock
2. The keyboard shall also provide the user to program up to 1000 definable macros
3. The keyboard shall be equipped with a three-axis vector solving joystick

4.0 Communication:

1. Bi-directional RS-232 with Ethernet option via RJ-45 port for matrix communication
2. Manchester Code, RS-422 and RS-485 outputs via terminal block connection

5.0 Power:

1. Input voltage of 120V/60Hz or 230V/50Hz
2. 4.5W power consumption

6.0 Warranty

The system keyboard shall be provided with a manufacturer's warranty that shall be extended only to the original purchaser and for the original installation for a period of three (3) years from date of original shipment.